

## PATENT ABSTRACTS OF JAPAN

(11) Publication number : 10-105313  
 (43) Date of publication of application : 24. 04. 1998

(51) Int. Cl. G06F 3/02  
 G06F 1/16  
 G06F 1/20

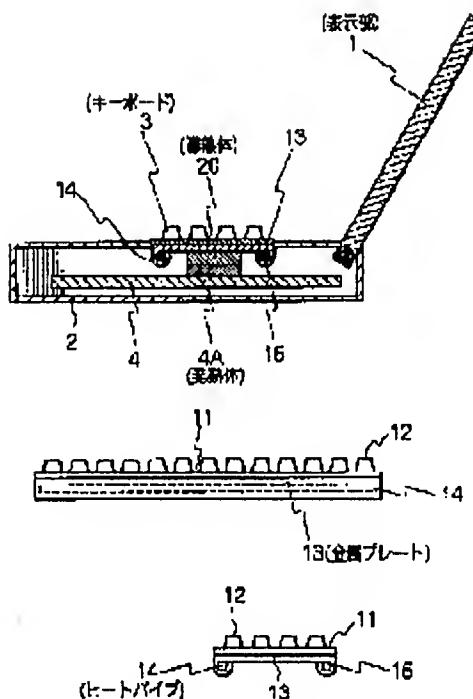
(21) Application number : 08-254810 (71) Applicant : NEC CORP  
 (22) Date of filing : 26. 09. 1996 (72) Inventor : IMAHASHI KOICHI

## (54) KEYBOARD INPUT DEVICE

## (57) Abstract:

PROBLEM TO BE SOLVED: To provide the keyboard input device which has its keyboard main body made small-sized and effectively evades the concentration of heat at a specific position of the keyboard main body.

SOLUTION: Of the keyboard input device equipped with the keyboard main body 11, input keys 12 arranged on the keyboard main body 11, a metal plate 13 which is mounted in a laminate state over the entire area of the keyboard main body 11 without disturbing the operation of each input key 12, and a circuit board 4 which is arranged in the space below the metal plate 13 and equipped with one or  $\geq 2$  heat generating bodies such as electronic components, the metal plate 13 is equipped with heat conduction members (heat pipe) 14 and 15 made of raw materials with good heat conductivity extending from one end part to the other end part of the keyboard main body 11 by fixation.



## LEGAL STATUS

[Date of request for examination] 26. 09. 1996

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2877100

[Date of registration] 22.01.1999

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]